



PHILIPS

Computed tomography

Case study

CT Carotid Artery Angiography with Spectral assessment

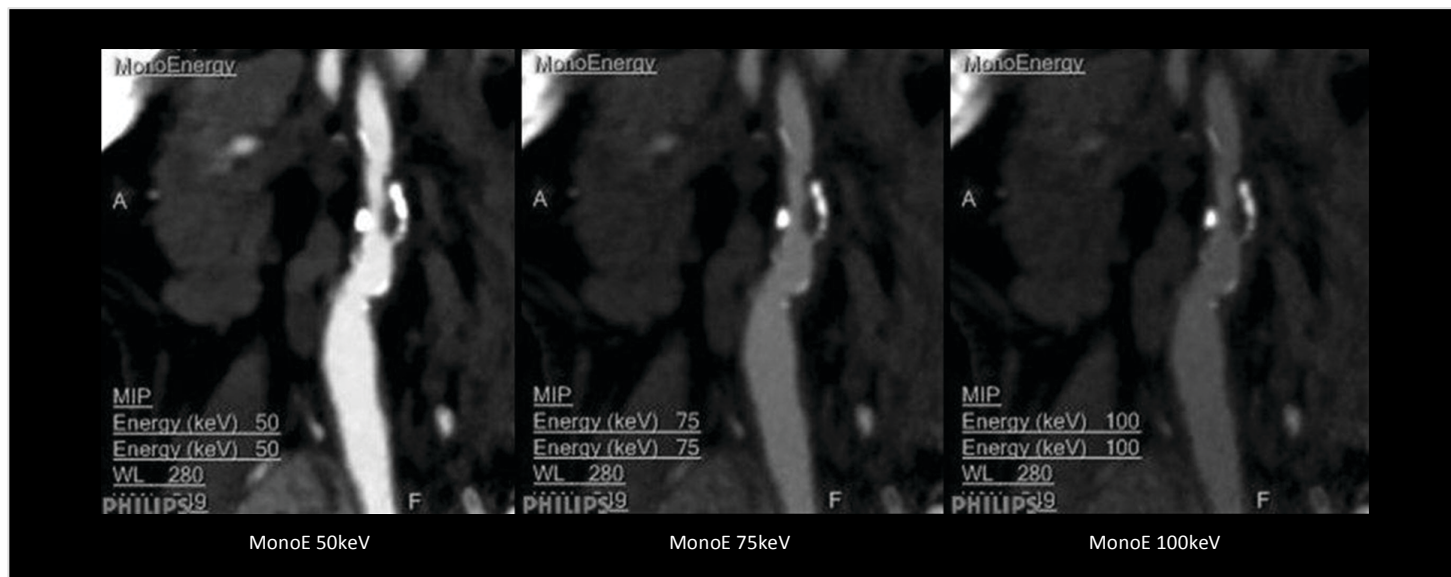
Images courtesy of University Hospitals Case Medical Center, Cleveland, Ohio

Clinical background

Patient presented to UH Case Medical Center's Radiology department with a recent ultrasound suggesting a critical stenosis in a calcified left internal carotid artery.

A low dose CT Carotid Artery Angiography examination was performed using the IQon Spectral CT, with subsequent spectral data review and analysis.

Clinical findings



A mixed calcified and soft plaque is demonstrated in the left internal carotid artery, just distal to the carotid bulb. The 100keV MonoE image best demonstrates the degree of stenosis in relation to the surrounding calcifications.

The spectral results on the IQon can help better characterize structures based on material content. **Spectral Magic Glass** can provide additional information for a virtually real-time region of interest to assist diagnosis.

The Philips IQon Spectral CT is the world's first and only spectral-detector CT, built from the ground up for spectral imaging. It delivers on-demand color quantification and material characterization that's radically simple and low dose. Now, with the IQon Spectral CT, every scan can be spectral on demand.

Iconic quantification

Color quantification adds spectral resolution to your image quality, delivering not just anatomical information, but the ability to identify and characterize structures based on material content.

On-demand spectral analysis

Prospective and retrospective spectral results in one scan – without the need for special scan modes.

Spectral on-demand made simple.

Philips IQon Spectral CT allows for on-demand retrospective data analysis with your traditional workflow and without a special acquisition mode. This takes the guesswork out of multi-energy acquisitions, making it easy for routine spectral use. Retrospective spectral analysis is made possible through the iPatient platform, so you can experience spectral CT without the need for any special protocols.

Keep your traditional workflow

We designed Philips advances like iPatient with IQon Spectral CT in mind. With IQon Spectral CT, integrate the personalised quantification of IQon Spectral CT directly into your scanning and reading workflow with full dose management. You scan as you normally do and the spectral information is there, at your fingertips, when you need it. Now with the Philips IQon Spectral CT, every scan can be spectral on demand.



The images and descriptions contained herein provide technical specifications and optional features which may not be included with the standard system configuration. Contact your local Philips Representative for complete specific system details.

Some or all of the products, features, and accessories shown or described herein may not be available in your market. Please contact your local Philips Representative for availability.

CT performance specifications represent typical measures values. The IQon Spectral CT is not yet CE Marked. Not available for sale in all regions.